

At a Glance Getting Hook and PTT Status of Tipro Voice Communication modules

USB HID Device Class	HID Telephony	HID Keyboard
Supported Hardware	All BeFREEs, Speakerboxes FxT and Handsets HTx ¹	All Tipro devices with USB controller
Integration of software and hardware	Fundef THIS_FILE static char THIS_FILE[] = _FILE_; fendif (HIDPhoneDesoDlg dislog CHIDPhoneDesoDlg: CHIDPhoneDesoDlg(CMnd* pParent /*-NULL*/) : Chialog(GHDPhoneDesoDlg: TDD, pParent) (((AFX_DATA_INIT(CHIDPhoneDesoDlg)	ChangeMar unity Fixe Chattop Device Tools Options Security Window Help Mil. Key A1 & Mil. Key B1 Mil. Key A1 & Mil. Key B1 Mil. Key A1 & Mil. Key B1 Mil. Ke
Software application receiving event notifications	Une 1 Line 2 Line 3 Line 4 Unitited - Notepad File Edit Format View Help When typingl	openComm Line 1 Line 2 Line 3 Line 4 Untitled - Notepad File Edit Format View Help when typingl
	Application connected to LUD Telephony	Only application in feature receives the
	Application connected to HID Telephony device receives notifications, even when not in focus	Only application in focus receives the notifications
(Status) Reports	device receives notifications, even when not	
•	device receives notifications, even when not in focus as HID Telephony Device	notifications as HID Keyboard Device
Reports Reporting Events (status	device receives notifications, even when not in focus as HID Telephony Device (sent only when addressed) Untitled - Notepad	as HID Keyboard Device (automatically sent upon an event) Untitled - Notepad File Edit Format View Help 1 a
Reports Reporting Events (status	device receives notifications, even when not in focus as HID Telephony Device (sent only when addressed) Untitled - Notepad File Edit Format View Help	as HID Keyboard Device (automatically sent upon an event) Untitled - Notepad File Edit Format View Help 1 a A1

¹ Not supported are: TM-FxU and TM-HUx

No. 005 Rev. 1.2



In Detail

The current status of the Hook switch (inside the cradle) and PushToTalk/PushToMute (PTT) key/button in all Tipro USB handsets² are normally reported to the host computer as a programmable sequence of keystrokes generated by a standard USB keyboard. Respective details are presented in the previous issue ("Hook and PTT in Software") of this paper.

Since nearly all operating systems are capable of accepting standard USB keyboard input and nearly every application software expect the operator to use it, this concept typically enables Tipro Modular Dispatcher Terminals to be integrated into the existing software environment without any intervention in the code.

However, certain software applications are designed to enquire on the Hook and PTT status rather than capturing the respective keyboard events.

For such cases Tipro devices with HID Telephony Interface can be configured in ChangeMe to send events over HID Telephony interface³. HID Telephony devices send status reports only when specifically addressed to (different to HID Keyboard devices that report automatically to the respective driver whenever a change in status occurs).

The software application needs to connect specifically to a HID Telephony device to receive its status updates (i.e. Hook, PTT events). This can be tested with ChangeMe

To configure: 1. In ChangeMe, click on the Content desired key (e.g. Hook switch) × Special content 2. Right-click on the content BeFREE 20 entry field and HID Telephony Module1 (HS) 3. choose HID Telephony and the correct event 4. Save and Update the hardware _ D X To test: USB HID Telephony Tipro HID Telephony device recognized. Press its keys to get events. 1. In ChangeMe, choose the option HID Telephony from Scan the Menu Tools USB HID devices USB HID devices (WID=005) PS2 to USB Converter (RAW) (WID=0A81 PID=0205) PS2 to USB Converter (RAW) (WID=1222 PID=FACD) Keyboard (no RAW) (I) (MID=1222 PID=FACD) Keyboard (no RAW) (I) (MID=1226 PID=FACD) Tipro Handset Telephony (RAW) (MID=2286 PID=0016) PIT-19 (RAW) 2. Scan for available HID Telephony hardware 3. Check if the desired events are HID Telephony events 1) Tipro Handset Telephony: 00; 01 00 00 00 00 00 00 00 10 Hook 1) Tipro Handset Telephony: 00; 00 00 00 00 00 00 00 00 1] Tipro Handset Telephony: 00; 00 00 00 00 00 00 00 00 1] Tipro Handset Telephony: 00; 00 00 00 00 00 00 00 00 Hook 1] Tipro Handset Telephony: 00; 00 00 00 00 00 00 00 00 reported (e.g. when lifting handset)

For further details please contact Tipro technical support team at support@tipro.si

² The same is applicable to six mechanical keys integrated in USB Speakerbox modules, the PTT key on BeFREE and the Line-keys on BeFREE 22 and BeFREE 07

³ In fact, both HID Keyboard and HID Telephony interface could be used concurrently